



## PATENT ABSTRACTS OF JAPAN

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**TANAKA FUMIO**

**(54) PREPARATION OF CATALYST****(57) Abstract:**

**PURPOSE:** To improve catalytic performance by adding a precursor component selected from among hydroxy acid such as silicon, boron or chromium and its salts to each precursor component of copper oxide, zinc oxide, zirconium oxide and/or aluminum oxide, in a methanol synthesis catalyst.

**CONSTITUTION:** Each precursor component of copper oxide and zinc oxide, and each precursor component of

zirconium and/or aluminum oxide are used as ingredients, and at least, one type of each precursor component selected from hydroxy acid such as silicon, boron, chromium, vanadium, magnesium or phosphorus and its salts, if necessary. In addition, 30wt.% of CO<sub>2</sub> as a reduced weight is added. Further, the content of zirconium and/or aluminum is 80wt.% max in terms of an oxide. Finally CO<sub>2</sub> is allowed to be added to the precursor by using a sedimentation agent containing a carbonic acid product.

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Applicant	PA	MITSUBISHI GAS CHEM CO INC
Inventor	IN	NAKAMURA TADASHI ; TSUJI KINYA ; OBATA YORIKO ; WATANABE TOSHIYASU ; TANAKA FUMIO
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[ ]

PURPOSE: To improve catalytic performance by adding a precursor component selected from among hydroxy acid such as silicon, boron or chromium and its salts to each precursor component of copper oxide, zinc oxide, zirconium oxide and/or aluminum oxide, in a methanol synthesis catalyst.

Abstract AB

CONSTITUTION: Each precursor component of copper oxide and zinc oxide, and each precursor component of zirconium and/or aluminum oxide are used as ingredients, and at least, one type of each precursor component selected from hydroxy acid such as silicon, boron, chromium, vanadium, magnesium or phosphorus and its salts, if necessary. In addition, 30wt.% of CO<sub>2</sub> as a reduced weight is added. Further, the content of zirconium and/or aluminum is 80wt.% max in terms of an oxide. Finally CO<sub>2</sub> is allowed to be added to the precursor by using a sedimentation agent containing a carbonic acid product.

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